#6

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/08/377,316

DATE: 10/13/95 TIME: 16:40:43

INPUT SET: S6614.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

| 1 | SEQUENCE LISTING |
|----------------------------------|---|
| 2 3 | (1) General Information: |
| 4 5 | (i) APPLICANT: Murgita, Robert A. |
| 6 7 8 9 | (ii) TITLE OF INVENTION: RECOMBINANT HUMAN ALPHA PETOPROTERI |
| 10 11 | (iii) NUMBER OF SEQUENCES: 16 |
| 12 13 | (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Fish & Richardson P.C. |
| 14 15 16 17 | (B) STREET: 225 Franklin Street, Suite 3100 (C) CITY: Boston (D) STATE: MA (E) COUNTRY: USA (F) ZIP: 02110-2804 |
| 19 20 21 22 23 24 | (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 |
| 25 26 27 28 29 | (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US 08/377,316 (B) FILING DATE: 24-JAN-1995 (C) CLASSIFICATION: |
| 30 31 32 33 34 | <pre>(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Clark, Paul T. (B) REGISTRATION NUMBER: 30,162 (C) REFERENCE/DOCKET NUMBER: 06727/006001</pre> |
| 35 36 37 38 39 40 | (ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (617) 542-5070 (B) TELEFAX: (617) 542-8906 (C) TELEX: 200154 |
| 41 42 | (2) INFORMATION FOR SEQ ID NO:1: |
| 43 44 45 46 | (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 2022 base pairs(B) TYPE: nucleic acid |

RAW SEQUENCE LISTING PATENT APPLICATION US/08/377,316

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(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

| 60 | TGGGTGGAAT | AACCATGAAG | AATAACTAGC | CCAATAACAA | TCCACCACTG | ATATTGTGCT |
|------|------------|------------|------------|------------|------------|------------|
| 120 | AGAAATGAAT | AACACTGCAT | CTGAATCCAG | CTAAATTTTA | AATTTTCCTA | CAATTTTTT |
| 180 | TTAGCTGACC | AGAGATAAGT | AATGTACTGC | GATTCTTACC | TTCCATATTG | ATGGAATAGC |
| 240 | GTAAGCAAAA | TTACAAGGAA | AAGAAGCCAC | CAGTTTGTTC | ATTTTTTGCC | TGGCTACCAT |
| 300 | TCTTCAGGGT | AGATGAACAG | AACCCACTGG | GCAATTGAGA | TGCATTGACT | TGGTGAAAGA |
| 360 | GAAATTTTGG | CCATGAGAAA | AAGAACTTTG | GCCTTTCTGG | CCAGCTACCT | GTTTAGAAAA |
| 420 | AACTGTTTTC | GGGAAGACAT | AAAGTGAAGA | TGCTGCAGCC | ACATTCAGAC | AGAAGTACGG |
| 480 | GAACCTGTCA | CCAAGTTCCA | TCCCACTTTT | GCAGCATGGA | AAAGCCCACT | TTGCACACAA |
| 540 | ATTTATGAGA | GAACAAATTC | AGACATTCAT | GAAGACAGGG | AGCATATGAA | CAAGCTGTGA |
| 600 | GCTGGGTATG | TCTTTCGGCT | CTACAATTCT | CTGTATGCAC | GCATCCCTTC | TAGCAAGAAG |
| 660 | CAAACAAAGG | TGAATGCTTC | AAAATGCAGT | TGCAAAGCTG | TCCATCTTGC | AGAAAATAAT |
| 720 | GCATGTCCAG | AAATCAACAT | GCAGCTTGTT | TTAAGAGAAA | TACAAAAGAA | CAGCAACAGT |
| 780 | CTGAGTCAGA | TGTTACTAAA | AAGCCATAAC | CGAACTTTCC | TTTTGGGACC | TAATGAAAAA |
| 840 | GCCCATGTAC | CCTGGATGTG | AGAAACTAGT | ACTGAAATCC | AGTTAATTTT | AGTTTACCAA |
| 900 | AAAATCATGT | GGATGGGGAA | ATTGTCTGCA | GATGTGCTGG | TTGCAGAGCA | ATGAGCACTG |
| 960 | TGCAAACTGA | AACAGAATGC | CAAACAAAAT | GACACTCTGT | TTCTCAACAA | CCTACATATG |
| 1020 | CCTGAAGGTC | TGATGAAAA | ATGCAGAAAA | TGTATAATTC | ACGTGGTCAA | CCACGCTGGA |
| 1080 | TCTTCAGGGG | TAACCAATTT | ATAGAGATTT | TTTTTAGGAG | TCTAAACAGG | TATCTCCAAA |
| 1140 | CCTCAGCTTG | AAGAAGACAT | ATGAATATTC | AGTTTTGTTC | CTTCTTGGCA | ААААААТАТ |
| 1200 | AAGTGTTTCC | GTTATTGGAG | GATACCAGGA | GTTGCTAAAG | AATTCTAAGA | CTGTCTCAGT |
| 1260 | AAATACATCC | AGAATTACAG | AAGGAGAAGA | TGCCAAGATA | CCCTCTTGAA | AGACTGAAAA |
| 1320 | GGAGAATATT | CCAGAAACTA | GCGGCCTCTT | AAGCGAAGCT | AGCATTGGCA | AGGAGAGCCA |
| | | | | | | |

RAW SEQUENCE LISTING PATENT APPLICATION US/08/377,316

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| 100 101 | ACTTACAAAA TGAGTTTCTC GTTGCTTACA CAAAGAAAGC CCCCCAGCTG ACCTCGTCGG | 1200 |
|--|--|------|
| 101 | ACTIACAAAA TGAGIITCIC GITGCTTACA CAAAGAAAGC CCCCCAGCTG ACCICGTCGG | 1380 |
| 102 | AGCTGATGGC CATCACCAGA AAAATGGCAG CCACAGCAGC CACTTGTTGC CAACTCAGTG | 1440 |
| 103 | AGCIGATOGC CATCACCAGA AAAATGGCAG CCACAGCAGC CACITGITGC CAACTCAGTG | 1440 |
| 104 | AGGACAAACT ATTGGCCTGT GGCGAGGGAG CGGCTGACAT TATTATCGGA CACTTATGTA | 1500 |
| 105 | AGGACAAACI AIIGGCCIGI GGCGAGGGAG CGGCIGACAI IAITAICGGA CACIIAIGTA | 1300 |
| 105 | TCAGACATGA AATGACTCCA GTAAACCCTG GTGTTGGCCA GTGCTGCACT TCTTCATATG | 1560 |
| 107 | TCAGACATGA AATGACTCCA GTAAACCCTG GTGTTGGCCA GTGCTGCACT TCTTCATATG | 1360 |
| 109 | CCAACAGGAG GCCATGCTTC AGCAGCTTGG TGGTGGATGA AACATATGTC CCTCCTGCAT | 1620 |
| 110 | CCARCAGGAG GCCATGCTTC AGCAGCTTGG TGGTGGATGA AACATATGTC CCTCCTGCAT | 1020 |
| 111 | TCTCTGATGA CAAGTTCATT TTCCATAAGG ATCTGTGCCA AGCTCAGGGT GTAGCGCTGC | 1680 |
| 112 | TOTOTORIOR ORROTTORIT TITORIRADO RICTOTOCO ROCTORODO TOROCCOCIOC | 1000 |
| 113 | AAAGGATGAA GCAAGAGTTT CTCATTAACC TTGTGAAGCA AAAGCCACAA ATAACAGAGG | 1740 |
| 114 | MMOONTON COMMONT!! CIONIIMOO !!CIONICON MMOCCHON RIMONONCO | 1740 |
| 115 | AACAACTTGA GGCTCTCATT GCAGATTTCT CAGGCCTGTT GGAGAAATGC TGCCAAGGCC | 1800 |
| 116 | | |
| 117 | AGGAACAGGA AGTCTGCTTT GCTGAAGAGG GACAAAAACT GATTTCAAAA ACTGGTGCTG | 1860 |
| 118 | | |
| 119 | CTTTGGGAGT TTAAATTACT TCAGGGGAAG AGAAGACAAA ACGAGTCTTT CATTCGGTGT | 1920 |
| 120 | | |
| 121 | GAACTTTTCT CTTTAATTTT AACTGATTTA ACACTTTTTG TGAATTAATG ATAAAGACTT | 1980 |
| 122 | | • |
| 123 | TTATGTGAGA TTTCCTTATC ACAGAAATAA AATATCTCCA AA | 2022 |
| 124 | | |
| 125 | (2) INFORMATION FOR SEQ ID NO:2: | |
| 126 | | |
| | | |
| 127 | (i) SEQUENCE CHARACTERISTICS: | |
| | (A) LENGTH: 590 amino acids | |
| 127 128 129 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid | |
| 127 128 129 130 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant | · |
| 127 128 129 130 131 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid | |
| 127 128 129 130 131 132 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear | |
| 127 128 129 130 131 132 133 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant | |
| 127 128 129 130 131 132 133 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear | |
| 127 128 129 130 131 132 133 134 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear | · |
| 127 128 129 130 131 132 133 134 135 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear | |
| 127 128 129 130 131 132 133 134 135 136 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein | · |
| 127 128 129 130 131 132 133 134 135 136 137 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear | · |
| 127 128 129 130 131 132 133 134 135 136 137 138 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val 35 40 45 | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val 35 40 45 Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp Glu Gln Ser | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val 35 40 45 | |
| 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | (A) LENGTH: 590 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: Not Relevant (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: Thr Leu His Arg Asn Glu Tyr Gly Ile Ala Ser Ile Leu Asp Ser Tyr 1 5 10 15 Gln Cys Thr Ala Glu Ile Ser Leu Ala Asp Leu Ala Thr Ile Phe Phe 20 25 30 Ala Gln Phe Val Gln Glu Ala Thr Tyr Lys Glu Val Ser Lys Met Val 35 40 45 Lys Asp Ala Leu Thr Ala Ile Glu Lys Pro Thr Gly Asp Glu Gln Ser | |

RAW SEQUENCE LISTING PATENT APPLICATION US/08/377,316

DATE: 10/13/95 TIME: 16:40:53

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|-----|------------|------------|------------|------------------|----------|---------|------------|------------|----------|--------------|------|--------|----------|--------------|-------------|-------------------|
| 153 | 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| 154 | | _ | | _ | _ | | | | | | • | | | | | |
| 155 | His | Glu | Lys | Glu | | Leu | Glu | Lys | Tyr | | His | Ser | Asp | Cys | | Ser |
| 156 | | | | | 85 | | | | | 90 | | | | | 95 | |
| 157 | | | | | | | | | | | | _ | | • | | |
| 158 | Gln | Ser | Glu | | Gly | Arg | His | Asn | Cys | Phe | Leu | Ala | His | Lys | Lys | Pro |
| 159 | | | | 100 | | | | | 105 | | | | | 110 | | |
| 160 | | | | | | | | | | | | | | | | |
| 161 | Thr | Ala | Ala | Trp | Ile | Pro | Leu | Phe | Gln | Val | Pro | Glu | Pro | Val | Thr | Ser |
| 162 | | | 115 | | | | | 120 | | | | | 125 | | | |
| 163 | | | | | | | | | | | | | | | | |
| 164 | Cys | Glu | Ala | Tyr | Glu | Glu | Asp | Arg | Glu | Thr | Phe | Met | Asn | Lys | Phe | Ile |
| 165 | - | 130 | | _ | | | 135 | | | | | 140 | | | | |
| 166 | | | | | | | | | | | | | | | | |
| 167 | Tyr | Glu | Ile | Ala | Arq | Arg | His | Pro | Phe | Leu | Tyr | Ala | Pro | Thr | Ile | Leu |
| 168 | 145 | | | | - | 150 | | | | | 155 | | | | | 160 |
| 169 | | | | | | | | | | | | | | | | |
| 170 | Leu | Ser | Ala | Ala | Glv | Tvr | Glu | Lys | Ile | Ile | Pro | Ser | Cys | Cys | Lys | Ala |
| 171 | | | | | 165 | - 2 | | | | 170 | | | - | - | 175 | |
| 172 | | | | | | | | | | | | | | | | • |
| 173 | Glu | Asn | Ala | Val | Glu | Cvs | Phe | Gln | Thr | Lvs | Ala | Ala | Thr | Val | Thr | Lvs |
| 174 | | | | 180 | | - 1 | | | 185 | | | | | 190 | | • |
| 175 | | | | | | | | | | | | | | | | |
| 176 | Glu | T.eu | Ara | Glu | Ser | Ser | Leu | Leu | Asn | Gln | His | Ala | Cys | Pro | Val | Met |
| 177 | <u></u> | | 195 | | | 201 | | 200 | | | | | 205 | | | |
| 178 | | | 1,7,4 | | | | | 200 | | | | | | | | |
| 179 | T.VS | Δsn | Phe | G] v | Thr | Δra | Thr | Phe | Gln | Δla | Tle | Thr | Val | Thr | Lvs | Leu |
| 180 | Lys | 210 | 1110 | O _T y | **** | n- 9 | 215 | 1110 | | 77.4 | | 220 | | | _,_ | 200 |
| 181 | | 210 | | | | | 213 | | | | | 220 | | | | |
| 182 | Sar | al n | Lve | Dhe | Thr | T.vg | Val | Δen | Dhe | Thr | Glu | Tle | Gln | T.vs | T.e.u | Val |
| 183 | 225 | GIII | цуз | FILE | 1111 | 230 | Val | ASII | 1 110 | **** | 235 | 110 | 0111 | 2,5 | 200 | 240 |
| 184 | 223 | | | | | 230 | | | | | 233 | | | | | 240 |
| 185 | T 011 | Nen | Val | λla | uie | Val | Hie | G311 | Hie | Cve | Cve | Ara | Ala | Δen | Val | T.611 |
| 186 | пеа | кэр | Val | АТа | 245 | Val | 1113 | GIU | 111.5 | 250 | Cys | AL 9 | ALG | nop | 255 | БСС |
| 187 | | | | | 243 | | | | | 250 | | | | | 233 | |
| 188 |) an | Cure | Lou | al n | λαn | @1 v | alu | T 170 | т1а | Mot | Sor | Пtrr | Ile | Cue | Sar | @ln |
| 189 | ASP | Cys | пéа | 260 | ASP | GLY | GIU | цуз | 265 | Mec | Ser | TYL | 116 | 270 | Ser | GIII |
| 190 | | | | 200 | | | | | 203 | | | | | 270 | | |
| 191 | a1 5 | 3 00 | mb ∞ | T 011 | Cor | Acn | Tuc | т1. | mb × | C1., | Cuc | Cue | Lys | T 011 | Thr | Thr |
| | GIII | ASP | | Leu | ser | ASII | гуз | 280 | IIII | GIU | Cys | Cys | 285 | цец | 1111 | 1111 |
| 192 | | | 275 | | | | | 200 | | | | | 203 | | | |
| 193 | T | a1 | 3 | a1 | a1 n | | т1. | т1 о | uia | ×1 ~ | 0111 |) an | Asp | C 111 | Twa | Dro |
| 194 | Leu | | Arg | СТУ | GIN | Cys | 295 | тте | птъ | АТА | GIU | 300 | ASP | GIU | цуѕ | PIO |
| 195 | | 290 | | | | | 295 | | | | | 300 | | | | |
| 196 | a 1 | ~ 7 | - | a | D | | T | | | nh - | T | a1 | 1 | 3 | 3 | Dha |
| 197 | | стλ | ьeu | ser | PIO | | ьeu | ASN | Arg | rne | | σтλ | Asp | Arg | ASP | |
| 198 | 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| 199 | | a3 | m 1 | a | ~ | ~1 | ~ 1 | T | 1 | ~ 7 ~ | ml | T | 27- | 0 | Dh | U - 1 |
| 200 | Asn | GIn | Pne | ser | | СΤĀ | GIU | гàг | Asn | | rne | ren | Ala | ser | | vaı |
| 201 | | | | | 325 | | | | | 330 | | | | | 335 | |
| 202 | | | - | ~ | | | ••• | n . | ~7 | • | | 77.2 7 | ~ | V7 7 | ~7 - | • |
| 203 | His | GLu | Tyr | | arg | Arg | HIS | Pro | | ьeu | ата | vaı | Ser | | тте | геп |
| 204 | | | | 340 | | | | | 345 | | | | | 350 | | |
| 205 | | | | | | | | | | | | | | | | |

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/377,316

DATE: 10/13/95 TIME: 16:40:57

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|------|-----|-----------|----------|-------|-----------|----------|-------------|---------|-------|--------------|----------|------------|------|-------------|----------|--------------|----------|
| | | | | | | | | | | | | | | INI | PUT S | ET: S | 6614.raw |
| 206 | | Ara | Val | Δla | ī.vs | Glv | Tvr | Gln | Glu | Leu | T.e.11 | Glu | ī.vs | | Phe | | |
| 207 | | *** 9 | • • • • | 355 | -70 | , | -] - | | 360 | Dog | пеа | OLU | טעט | 365 | | | **** |
| 208 | | | | 000 | | | | | 500 | | | | | 505 | | | |
| 209 | | Glu | Δen | Pro | T. 211 | Glu | Cvc | G1n | Asn | T.vs | G] v | Glu | Glu | Glu | Leu | al n | T.ve |
| 210 | | GIU | 370 | 110 | nea | GIU | Cys | 375 | ASP | цуз | GLY | GIU | 380 | GIU | neu | GIII | цуз |
| 210 | | | 370 | | | | | 3/3 | | | | | 300 | | | | |
| | | m | т1. | a1 n | a1 | C0. | 01 5 | | T 011 | A 1 a | T | 3 ~~ | Cor | Circ | Gly | T 011 | Dho |
| 212 | | _ | TTE | GTII | GIU | 261 | 390 | АТа | Leu | ATG | гÃ2 | 395 | Ser | Cys | сту | Leu | 400 |
| 213 | | 385 | | | | | 390 | | | | | 393 | | | | | 400 |
| 214 | | 41 | T | T | ~1 | al | m | m | T | a 1 = | 1 | a1 | Dhá | T | 17.1 | 11- | M |
| 215 | | GIN | гÀг | Leu | сту | | Tyr | Tyr | Leu | GIN | | GIU | Pne | Leu | Val | | Tyr |
| 216 | | | | | | 405 | | | | | 410 | | | | | 415 | |
| 217 | | ml | - | • | | D | a 1 | | m\ | a | ~ | a 1 | T | 34-4 | | - 1 - | mb |
| 218 | | Inr | гàг | гàг | | Pro | GIN | Leu | Thr | | ser | GIU | Leu | мет | Ala | тте | Thr |
| 219 | | | | | 420 | | | | | 425 | | | | | 430 | | |
| 220 | | | • | L | | | 1 | | | 1 | | ~ | a1 | | ~ | ~ 7 | • |
| 221 | | Arg | Lys | | Ala | Ala | Thr | Ala | | Thr | cys | Cys | GIN | | Ser | GLU | Asp |
| 222 | | | | 435 | | | | | 440 | | | | | 445 | | | |
| 223 | | _ | _ | _ | | | | | | | | _ | | | | | |
| 224 | | Lys | | Leu | Ala | Cys | СТĀ | | GTÀ | Ala | Ala | Asp | | Ile | Ile | GTÀ | His |
| 225 | | | 450 | | | | | 455 | | | | | 460 | | | | |
| 226 | | _ | | | | | | | • | _ | | _ | _ | | - | | _= |
| 227 | | | Cys | Ile | Arg | His | | Met | Thr | Pro | Val | | Pro | GŢĀ | Val | Gly | |
| 228 | | 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| 229 | | | | | | | _ | | | | | _ | | | | | _ |
| 230 | | Cys | Cys | Thr | Ser | | Tyr | Ala | Asn | Arg | | Pro | Cys | Phe | Ser | | Leu |
| 231 | | | | | | 485 | | | | | 490 | | | | | 495 | |
| 232 | | _ | _ | | _ | _ | | _ | | | _ | _ | | | | | _ |
| 233 | | Val | Val | Asp | | Thr | Tyr | Val | Pro | | Ala | Phe | Ser | Asp | Asp | Lys | Phe |
| 234 | | | | | 500 | | | | | 505 | | | | | 510 | | |
| 235 | | _ | | | | | | | _ | _ | _ | _ | _ | _ | | _ | |
| 236 | | Ile | Phe | | Lys | Asp | Leu | Cys | | Ala | Gln | Gly | Val | | Leu | Gln | Arg |
| 237 | | | | 515 | | | | | 520 | | | | | 525 | | | |
| 238 | | | | _ | _ | _ | | _ | | | _ | | _ | | | _ | _ |
| 239 | | Met | _ | Gln | Glu | Phe | Leu | | Asn | Leu | Val | Lys | | Lys | Pro | Gln | Ile |
| 240 | | | 530 | | | | | 535 | | | | | 540 | | | | |
| 241 | | _ | _ | _ | _ | | _ | | | _ | _ | | _ | | _ | | |
| 242 | | | Glu | Glu | Gln | Leu | | Ala | Leu | Ile | Ala | - | Phe | Ser | Gly | Leu | |
| 243 | | 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| 244 | | _ | | | | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ |
| 245 | | Glu | Lys | Cys | Cys | Gln | Gly | Gln | Glu | Gln | | Val | Cys | Phe | Ala | Glu | Glu |
| 246 | | | | | | 565 | | | | | 570 | | | | | 575 | |
| 247 | | | _ | | | _ | | | | _ | | | | _ | _ | | |
| 248 | | Gly | Gln | Lys | | Ile | Ser | Lys | Thr | _ | Ala | Ala | Leu | Gly | | | |
| 249 | | | | | 580 | | | | | 585 | | | | | 590 | | |
| 250 | | | | | | | | | | | | | | | | | |
| 251, | (2) | INFO | RMAT: | ION I | OR S | SEQ] | D NO | 3: | | | | | | | | | |
| 252 | | | | | | | | | | | | | | | | | |
| 253 | | (i) | _ | | | | | STICS | | | | | | | | | |
| 254 | | | | | | | | lno a | cids | 3 | | | | | | | |
| 255 | | | | | | mino | | | | | | | | | | | |
| 256 | | | | | | | | iot E | Relev | ant | | | | | | | |
| 257 | | | (D) | TOI | POLO | Y:] | linea | ar | | | | | | | | | |
| 259 | | | | | | | | | | | | | | | | | |